

NORTHERN PAPER MILLS

Manufacturers of Bathroom and Lavatory Equipment

Home Office:
GREEN BAY, WIS.

Branch Offices
Resident representatives in principal cities

Products

NORTHERN FOLDED TOWEL CABINETS
NORFOLD TOWEL CABINETS
NORTHERN CABINET TISSUE FIXTURES
NORFOLD AND NORTHERN FOLDED TOWELS
NORTHERN INTERFOLDED CABINET TISSUE
NORTHERN BLEACHED CABINET TISSUE
HOMETOWL CABINETS FOR PERSONAL
TOWEL SERVICE

Norfold Towel Cabinet

The Norfold cabinet gives the finest towel service. The compact cabinet 13"x10"x3 1/2" protrudes only 3 1/2" from the wall with no sacrifice of capacity.

The drawn steel cabinet is finished in heavy, baked-on Vitreous enamel, chrome plate or gunmetal green. The great strength of the drawn steel gives a durable cabinet with a firm, non-chipping finish. Rounded corners give added beauty and prevent injury to anyone brushing against the dispenser.

The Norfold pressed steel cabinet comes in white enamel or gunmetal green. Pressed steel dispensers are less expensive.

Both cabinets work on the same principle. Simple, positive, gravity feed eliminates troublesome wheels, levers and springs. Slots on each side indicate when to refill.

Northern Folded Towel Cabinet

Dimensions of this cabinet are 14 1/2"x7 1/2"x6 1/4". It is made of heavy gauge pressed steel. The deep stamped corrugation gives it great strength and long life. Comes in heavy baked enamel finished either in white or gunmetal green. Holds standard folded towels.

The cabinet is a strong simple box. There are no wheels, levers or springs to get out of order. Slots in each end indicate when to refill.

The entire front of the cabinet swings out so refilling is a simple matter of one motion.

The cabinet feeds only one towel at a time, effecting a real economy. A simple, strong lock keeps towel supply under lock and key.

Every Northern towel and tissue cabinet comes equipped with screws for mounting. Slots in the back permit adjustment of screws to fit any standard arrangement of holes.

All the metal towel and tissue cabinets, except the Hometowl fixture, come equipped with a strong, simple lock and keys. Hometowl cabinet has no lock.

Both towel and tissue sheets are interfolded. The withdrawal of one sheet leads the front edge of the next one out of the cabinet ready for service.





Northern Cabinet Tissue Dispensers

The compact Vitreolite Northern Cabinet Tissue fixture measures only $3 \times 4 \frac{1}{8} \times 5 \frac{7}{8}$ inches. Made of drawn steel, it has great strength and durability. It is made with a baked vitreous enamel finish or a non-tarnishing chrome plate. These unusually hard finishes resist scratching and stains and may be easily cleaned with a damp cloth.

Visible feed through the side slots makes it easy to see when paper supply is low. The cabinet is easily refilled when wholly or partly empty. The entire front drops forward when unlocked and cabinet takes a complete package of 1000 sheets while there are still 200 sheets unused.

The pressed steel cabinet operating on the same principle is made in the square design. It is finished in gunmetal green or white enamel.

Paper for Northern Cabinet Tissue fixtures is silky smooth in finish. Each package contains 1000 sheets $4 \frac{1}{2} \times 4 \frac{1}{2}$ cut 500 sheets $4 \frac{1}{2} \times 9$. They are dispensed fully extended from the cabinet.



Porcelain Dispensers

In addition to the metal cabinets, porcelain dispensers can be supplied in both recess (built in) and projecting types. Both measure 6x6 inches across the front. They occupy the wall space of two standard tile. The recess type requires a wall opening 3 inches deep. The projecting type extends 3 inches from the wall. It attaches to the surface of the wall by two screws.

These dispensers are made entirely of porcelain — built of one piece construction with a heavy glazed finish. They contain no working parts to get out of order. Paper is inserted through the front opening and is dispensed one sheet at a time.



Northern Hometown Cabinet

The Northern Hometown cabinet is unique in the towel field. It is designed for a personal towel service in private executive offices and washrooms.

This compact easily mounted cabinet measures only $10 \frac{7}{8} \times 5 \frac{7}{8} \times 2 \frac{1}{4}$ inches. It fills from the top and dispenses from the front. It has no mechanical parts. Five colors are supplied to match colored walls and equipment — Jade Green, Prussian Blue, Canary Yellow, English Red, and White.



CHICAGO HARDWARE FOUNDRY CO.

ELECTRICAL DIVISION

EXECUTIVE OFFICE AND FACTORY
NORTH CHICAGO, ILL.

Representatives in Principal Cities of United States and Canada

Products

SANI-DRI, New "SF" Model, a fast electrical drier for hands and face.

SANI-DRI, the Modern Hair Drier, for swimming pools and shower rooms.

Also Beauti-Air, a new electrical drier (hair, hands, face) for the home or apartment bathroom. Special folder on request.

The Company

The CHICAGO HARDWARE FOUNDRY Co. is a \$3,000,000 organization with plants covering more than 20 acres. It is headed by men of high integrity and position, and its reputation for quality products has been built on forty-three years of successful, honorable merchandising.

Guarantee

All Sani-Dri and Beauti-Air units are unconditionally guaranteed for a period of one year from date of purchase. If by any chance a defect should develop

LOCAL REPRESENTATIVE

in any part during that period, that part will be replaced without charge, formality or delay.

Service and Sales

Branch offices are maintained in all principal cities of United States and Canada. The sales and service organization is combined under one representative head in each district and proper service is assured at all times. The name of your nearest district representative will be furnished promptly on request, if not stamped above.

Underwriters' Laboratory Approval

All Sani-Dri units have been thoroughly tested and listed as standard.

Sani-Dri Installations

Are in many prominent office buildings, schools, parks, theatres and large industrial plants from coast to coast and the manufacturer will gladly forward names of near-by users upon request.

THE NEW "SF" SANI-DRI—TWO MODELS

Features

"Dries Quicker Than a Towel"—The new "SF" Sani-Dri operates instantly and the element heats at once; has greater speed and broader increased air flow, which quickly evaporates all moisture, leaving the skin soft, smooth and "chap-free."

Quieter Operation—Mechanical vibration has been eliminated by a perfected lighter weight, finely balanced aluminum fan, and the use of rubber insulation on motor mounting.

New "All-position" Swivel Nozzle—This feature adds many new advantages for the user. New nozzle has a pleasing shape and generous size which was designed to accommodate the increased air flow. It has a finish of clean, genuine porcelain enamel inside and out.

Convenient Drying for All—The convenient swivel nozzle, together with new drier height, allows the small child or tallest adult to dry comfortably while standing in a natural position. No stooping or stretching.

Face and Neck Drying—Is now just as convenient as drying the hands, because the nozzle swings easily to any angle—not just up or down.

No distasteful force of air into the eyes or nostrils when drying face. The nozzle is shaped to direct air force under chin, where air spreads V-like, to dry both sides of face.



**Pedestal Model
"SF" Sani-Dri**

Handsome in its gleaming white genuine porcelain enamel. Right in height, fast and thorough in service. Foot-pedal operated. Easily installed; uses little current. (Wall model "SF" Sani-Dri is pictured on following page)

Protects User from Water—This nozzle shape was scientifically designed to prevent blowing of water on the user. Cannot spatter user's eyeglasses.

Protects Wall—Front position of the nozzle prevents water being blown on walls or mirrors.

Clean Top Always—The position of the nozzle eliminates the possibility of water dropping on top of drier.

Has Smooth Flat Top—On which the user can place purse, compact or package within sight.

Conserves Space in the Washroom—The two new models provide an excellent choice for any size room. New height and shape of the pedestal model frequently permits installation between washbowls. New wall type may be attached to wall when clear floor space is desired.

For positioning suggestions see "SF" and "SFW" details on second page following.

Protected Heating Element—The Sani-Dri element is so positioned that it is fully protected from water or injury. It, of course, is placed close to the point of drying to provide the proper amount of heat without excess current.

Nozzle Screen—Is placed at the inner end of the nozzle instead of the outer, thus eliminating the possibility of accumulating dirt inside the nozzle. Screen also deters mischief.

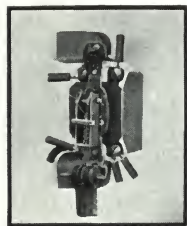
Sani-Dri Mechanical Efficiency and Long-life Construction

These are factors easily discernible in the new "SF" Sani-Dri. Every part from outer case to internal mechanism has been tested and proven right for its purpose.

The new "SF" Sani-Dri is built for permanent sanitation, for continuous use and lasting satisfaction. The best proof is in the quality of its details.

Entire Outer Covering of Sani-Dri—Is of genuine porcelain enamel over the highest quality heavy gray cast iron. It will last as long as the washbowls—even the building itself.

Motor—A $\frac{1}{6}$ hp. Westinghouse Universal type, specially designed and specially built for years of constant use. It is operated at approximately half capacity—a factor which will certainly extend the long life of the motor.



Switch

Switch—Is a double capacity, Underwriters' approved, snap type toggle switch which has been tested to a *million makes and breaks*. Two springs and a castillated nut protect the switch against undue tension or mischief.



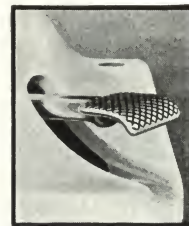
Heating Element
Showing protecting screen and scientific position of the long-life heating element

The Fan—Is a scientifically designed, multi-blade twin fan of hard rolled, non-rusting aluminum. Lighter, faster and greater capacity, giving a doubled air flow.

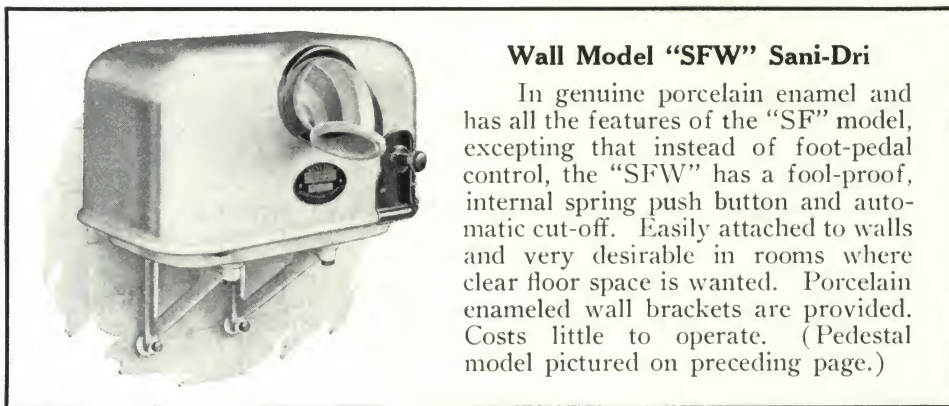
Heating Element—Was specially designed and tested to the equal of four years of use. A simple, inexpensive emergency fuse protects it against excess voltage variance.

Ward Leonard Resistor—Long-life type. Controls speed of motor and maintains a proper balance of heat and air for speedy drying.

Foot Pedal and Nozzle Ring—Are of solid brass, richly plated and rustproof. Note pictured resting knob under pedal; an added protection so that pedal cannot be snapped off.



Foot Pedal



Wall Model "SFW" Sani-Dri

In genuine porcelain enamel and has all the features of the "SF" model, excepting that instead of foot-pedal control, the "SFW" has a fool-proof, internal spring push button and automatic cut-off. Easily attached to walls and very desirable in rooms where clear floor space is wanted. Porcelain enameled wall brackets are provided. Costs little to operate. (Pedestal model pictured on preceding page.)

Sanitation, Service and Economy

The New "SF" Sani-Dri provides a faster, better service for the washroom. Not only dries faster, but dries more thoroughly, the natural way, by evaporation. Prevents chapping and leaves the skin soft and smooth.

Eliminates constant filling of towel boxes; reduces janitor expense. Banishes unsanitary soiled towels and the litter of paper baskets; reduces fire hazard. Improves washroom appearance and provides permanent sanitation.

Gives a continuous "always there" service. Costs little to operate. Saves 60% to 90% of towel bills and quickly pays for itself in savings.

Wiring for Sani-Dri

Sani-Dri is so rapidly becoming the accepted method of efficient, economical drying that wiring for its present or future installation should be provided on all new construction.

For the sake of handier, more efficient service it is advisable, wherever possible, to install driers near same wall as washbowls and facing same direction.

Sani-Dri can be connected at regular outlet, or in the instance of floor outlet, bring service wires up through bottom of pedestal. (For wire recommendation, position suggestions and current consumption, see details on following page.)

For Hair Drying—Install the "SFW" Sani-Dri

For speedy, economical hair drying install the new wall model "SFW" Sani-Dri (pictured above). Because of the greater speed, stronger air flow, new nozzle and other features, this new "SF" Wall Sani Dri has quickly replaced our preceding hair drier in popular demand.

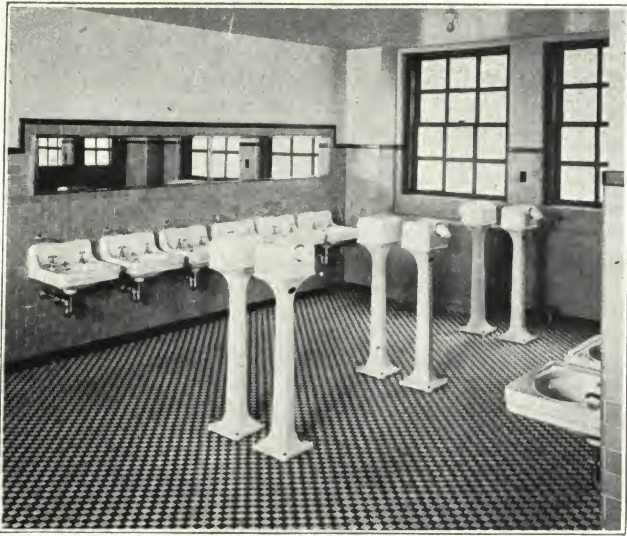
It is a full size, single-unit type drier, created for permanent installation and trouble free, continuous service.

As a hair drier it is easily equal to three outlets of the old-fashioned blower type . . . uses less current,

saves towels, time and annoyance . . . and serves more people because it dries faster.

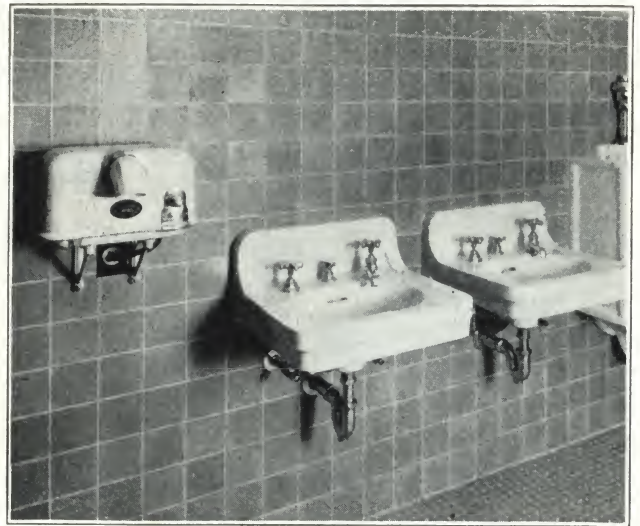
This "SFW" Sani-Dri is the ideal hair drier for high grade swimming pool or shower room use. It has full outer construction of genuine porcelain enamel and a "foolproof" automatic cut-off that times the dry and prevents current wastage. No tubes, no clumsy attachments—nothing to get "out of order."

For installation details, see following page. Current consumption, wiring recommendations are the same for all models of the "SF" series.



Installation of New "SF" Pedestal Model Sani-Dri
Sloane Memorial Y. M. C. A., New York, N. Y.

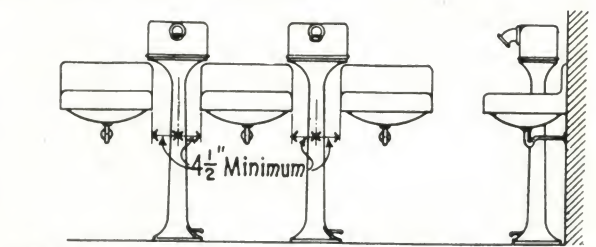
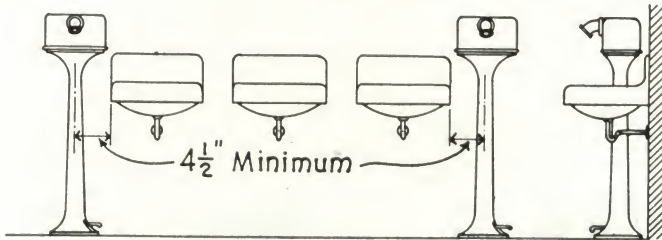
Showing the new "SF" pedestal model Sani-Dri in a larger size room, where washbowls are installed on both walls. (For other positioning suggestions, particularly for smaller washrooms, see details below)



Installation of "SFW" Wall Model Sani-Dri, New Building,
Genesee Valley Trust Co., Rochester, N. Y.

A typical installation of "SFW" wall model Sani-Dri in the washrooms of a new building. This model was especially designed for use in rooms where clear floor space is desired. (Installation details below)

WIRING AND POSITIONING DETAILS "SF" Sani-Dri Pedestal and Wall Model



SUGGESTED POSITIONING

PLANS FOR "SF" SANI-DRI

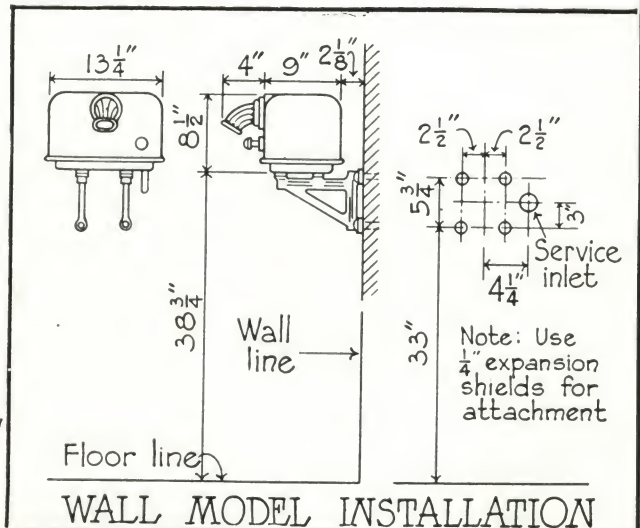
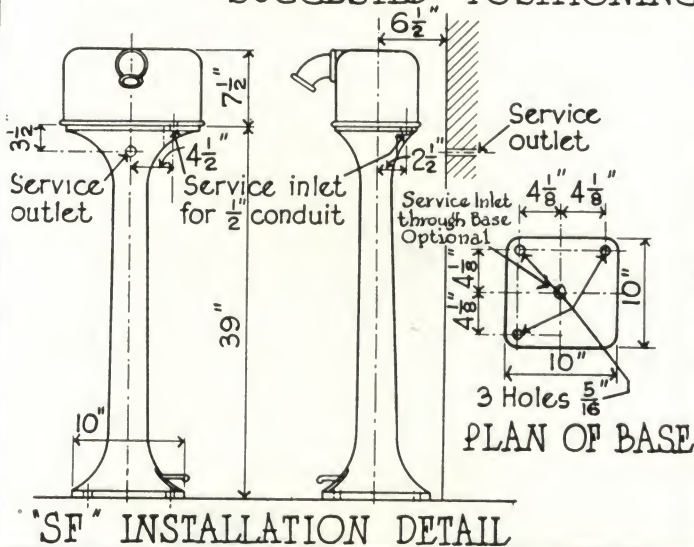


TABLE OF RECOMMENDED WIRE SIZES

For 1 machine use	No. 14 wire
For 2 machines use	No. 12 wire
For 3 machines use	No. 8 wire
For 4 machines use	No. 6 wire
For 5 machines use	No. 6 wire
For 6 machines use	No. 4 wire

CURRENT CONSUMPTION OF "SF" (PEDESTAL) AND "SFW" (WALL MODEL) SANI-DRI

Current consumption of heating element.....	12. amp.
Current consumption of motor.....	1.5 amp.

Total current consumption of "SF" and "SFW" Sani-Dri. 13.5 amp.

*Universal motor—110 volts. May be had in 220 volts also.

BOBRICK MANUFACTURING CORPORATION

Manufacturers of Liquid and Powdered Soap Dispensers

215 Fourth Avenue
NEW YORK, N. Y.

111-117 South Garey Street
LOS ANGELES, CALIF.

Products

SOP-O-ZON LIQUID and POWDERED SOAP DISPENSERS; SOP-O-ZON GRAVITY FEED LIQUID SOAP SYSTEMS; VALVES, TANKS and all necessary fittings.

Construction

Dispensers furnished in bronze, pressed steel and alloys. Standard finish in nickelplate, highly polished. Genuine Crodon finish for all products from stock.

Write for detailed specifications and catalogue.

Complete Service

Soap dispensers are our main business—not a side line.

Reasons for Specifying Bobrick's Equipment

The Company—The most complete line of dispensers obtainable is the result of 24 years of experience and continuous manufacturing.

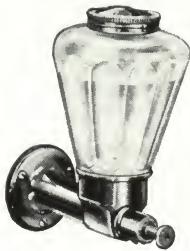
Patents—Owned and controlled by us. This fact insures your clients against litigation.

Guarantee—All products unreservedly guaranteed to operate to the complete satisfaction of the user.

Stocks—Immediate delivery from New York, Chicago, Los Angeles, and by over 300 distributors in the United States and Canada.



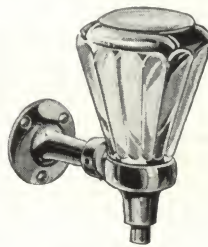
No. 7
Opal, Clear or
Metal Globes
Bronze and
Nickel Silver



No. 9
Pressed
Steel



No. 10
Porcelain-
on-Steel
Standard
Colors



No. 15
Push-up Type
Brass



No. 25
Powdered
Soap Dis-
penser
White Metal



No. 8
Opal, Clear or
Metal Globes
Bronze and
Nickel Silver



No. 801
Bronze
Obtainable
in Art Metal
design



No. C862
Factory



No. C860
Wall



No. C863
Shower Bath

Bronze and Nickel
Silver Soap Valves



No. C860
Art Metal



No. C868
Long Spout



No. 86-91
High Pressure



No. C866
Pullman Type
Obtainable in
Art Metal



Metal Tank
C920—1 gal.
C901—3 gal.
C902—5 gal.



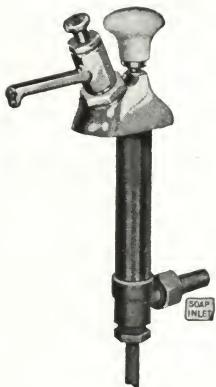
White Enamel
Tank
No. C903—2½ gal.



White Enamel
Tank
C904—1 gal.
C905—2½ gal.



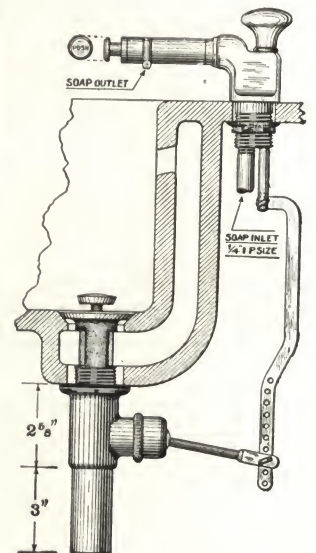
Vitreous China
Tank
No. C814—1 gal.
No. C815—2 gal.
No. C816—5 gal.



No. 8694



Soap Valves Attached to Push and Pull Pop-up Waste



No. 8692

THE GERSON-STEWART CORPORATION

Manufacturers of Liquid Soap Systems and Softasilk Liquid Soap
CLEVELAND, OHIO

Product

SOFTASILK GRAVITY LIQUID SOAP SYSTEM for factories, hotels, clubs, public buildings, schools, hospitals, institutions, etc., with over fifteen years of satisfactory performance.

Softasilk

TRADE-MARK
(Registered)

clean same; avoids constant annoyance of replacement of individual containers.

Advantages of the System

With the perfected valve, the Softasilk Gravity Liquid Soap System has become a necessity in solving the soap problem in washrooms. It is easily installed in old or new buildings at low cost. The liquid soap is fed by gravity from a tank, through a pipe to valves directly over each basin. In new buildings, the pipe is concealed, with only the valve exposed, as shown on the illustration below. The *most important part* of the system is naturally the discharge valve. Particular attention is called to the Softasilk Valve, its sightliness, sturdiness, simplicity in construction, accessibility. The Softasilk Valve is operated by pushing the button which displaces a measured amount of soap. The important feature is that the opening and closing are alternate, and there is, therefore *no point in the travel of the piston at which a continuous flow may be obtained.*

There are only two washers in the valve, neither of which moves, and there is very little wear. The front nut is securely locked, but may be easily removed, and a washer replaced in a few minutes. The Softasilk Valve is beautifully chrome finished.

What It Does

A push of the button delivers a measured amount of liquid soap directly into the palm, eliminating all contact with the dispenser. There is nothing to fool with, and it is easy to operate. It gives 16,200 pushes to each gallon of soap.

What It Saves

The Softasilk Gravity System saves one-third of the soap bill by eliminating waste in using, and waste in filling small individual dispensers; saves breakage of individual glass containers, and the time required to fill and

Tanks

The tanks, as shown in the illustration, are made with a view of giving lifelong service, beauty and ease in cleaning. They are welded as one piece, and finished inside and outside in white vitreous enamel. A gauge shows the level of the soap at all times. Stock sizes are 1, 3 and 5 gallons. Special sizes and individual colors to order.



Softasilk System Tank

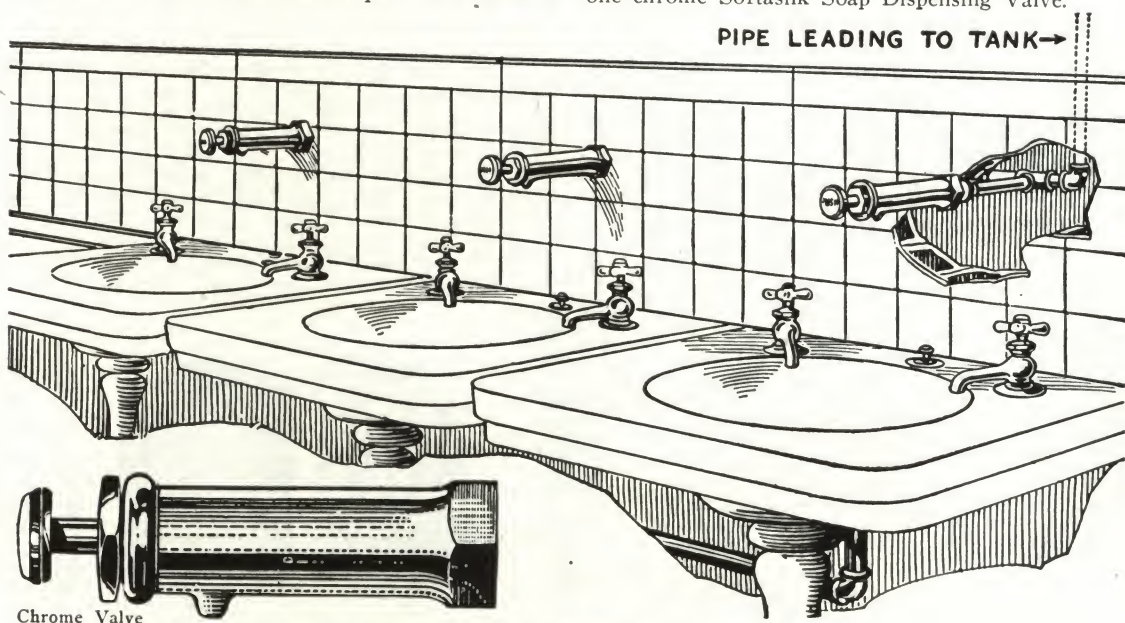
Complete Service and Guarantee

THE GERSON-STEWART CORPORATION supplies valves, piping, fittings, tanks, etc., complete. All carefully finished. By giving us sketch of the equipment to be provided for, we can quickly recommend the proper installation, and quote, advising the best way to install. There is no charge for this service.

The proof of the success of the Softasilk Gravity Valve is our unqualified guarantee of "After Sales Satisfaction," or no cost.

Softasilk Gravity Specifications

Furnish and erect complete a liquid soap system with outlets at every washroom and shower, located as directed. This system shall include vitreous enamel tanks, capacity $\frac{1}{2}$ gallon per fixture. Shut-off cock below each tank; galvanized pipe and fittings as specified for cold water and delivery valves, and shall be the Softasilk Gravity System, as made by THE GERSON-STEWART CORPORATION, Cleveland, Ohio. All piping to be concealed. The lines from the tanks shall be $\frac{3}{8}$ -in. pipe, with $\frac{3}{8}$ -in. branches to the dispenser. Tanks are to be placed as shown on the plans. Over each lavatory furnish and install one chrome Softasilk Soap Dispensing Valve.



Chrome Valve

Installation of Softasilk System with Concealed Pipes

Pipes and tanks may be exposed on wall, or concealed, as conditions warrant

THE IMPERIAL BRASS MFG. CO.

Manufacturers of the Watrous Liquid Soap Specialties

1222 West Harrison Street

CHICAGO, ILL.

Products

WATROUS LIQUID SOAP FIXTURES.

Also, Watrous Duojet Water Closets, Combination Lavatory Fixtures, Lavatory Wastes, Self-closing Faucets.

For Imperial Window Washing Devices, Safety Belts, Builders' Hardware and Watrous Flush Valves, see Manufacturers' Index.

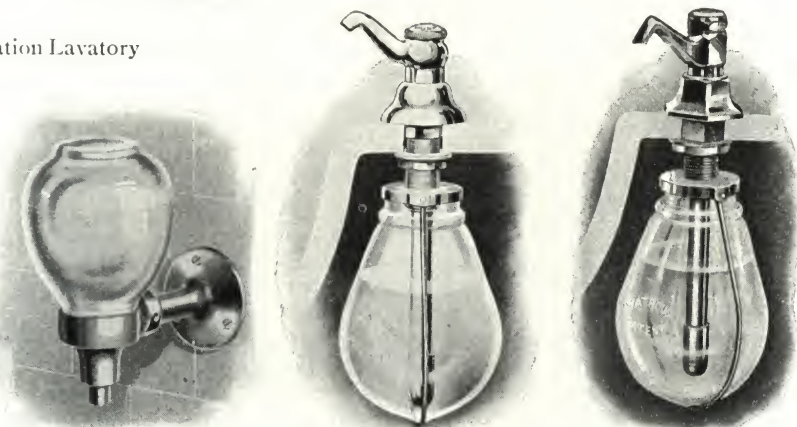
Watrous Individual Liquid Soap Fixtures

These high quality fixtures are regularly specified by leading architects everywhere and are standard on all Pullman cars.

M-815 fixture has a reversible joint in the wall bracket to invert bottle for easy filling. M-801 and M-819 fixtures are for top of lavatories.

All soap fixtures shown are regularly furnished in high grade nickelplate, or in chromium plate or white metal if desired.

The architect's attention is directed to M-819 and M-817 Art Crodon Fixtures. They harmonize perfectly with the new "Art" lines of lavatory fittings by leading manufacturers.



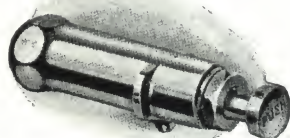
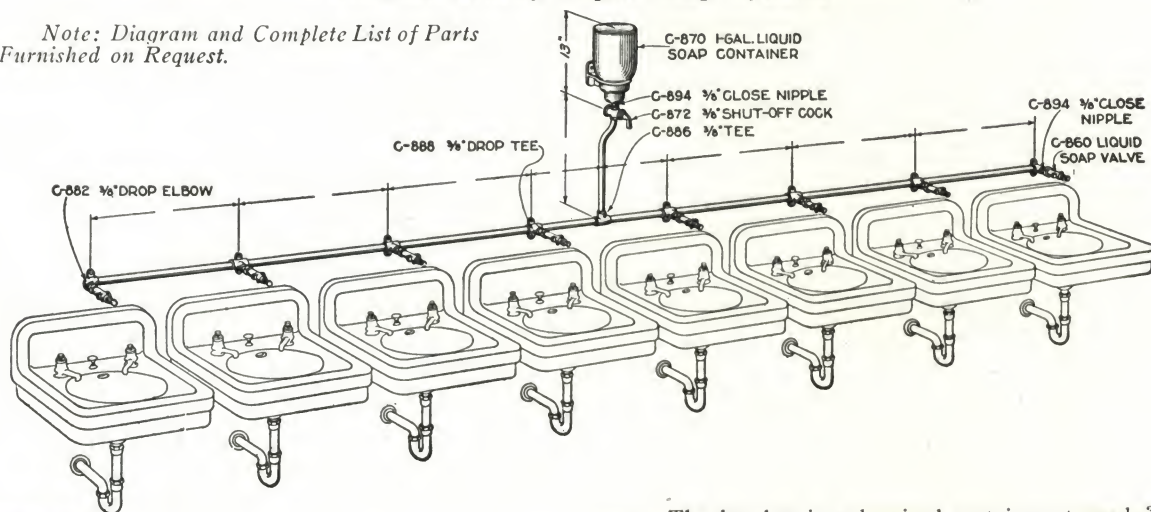
No. M-815. Wall Type Fixture

No. M-801. Lavatory Type Fixture

No. M-819. Art Crodon Lavatory Type Fixture

Watrous Gravity Liquid Soap Systems

*Note: Diagram and Complete List of Parts
Furnished on Request.*



No. C-860. Liquid Soap Valve

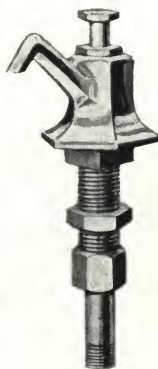
No. C-860 Liquid Soap Valve—Operated in a horizontal position. Threaded $\frac{3}{8}$ -in. iron pipe size, to fit one of our standard wall fittings. A push on the button delivers a measured quantity of liquid soap through the spout hole. Made of brass heavily nickel-plated, or chromium plated.



No. C-866

No. C-866 Liquid Soap Valve—Operated in upright vertical position. Provided with shank to fit $1\frac{1}{4}$ -in. faucet hole in lavatory top. Shank is equipped with a $\frac{3}{8}$ -in. iron pipe coupling nipple and nut for connecting to the piping which can be concealed underneath lavatory. Made of brass heavily nickel-plated, or chromium plated. Can be furnished with chain stay for plug.

No. C-870 Liquid Soap Container—Has glass container holding 1 gal. liquid



No. M-817

soap. The bracket is galvanized cast iron, tapped $\frac{3}{8}$ -in. iron pipe thread.

No. C-901 Liquid Soap Tank—Made in three sizes, 1, 3 and 5-gal. capacities. Gauge drops when tank is three-quarters empty. Made of black iron with welded seams and aluminum finish. Tapped $\frac{3}{8}$ -in. iron pipe thread. No. C-920—1 gal.; No. C-901—3 gal.; No. C-902—5 gal.

No. C-903 Liquid Soap Tank—Tank has a $2\frac{1}{2}$ -gal. capacity. It is white enameled and equipped with a calibrated gauge, indicating contents in quarts. Made of Russianized iron with welded seams. Tapped $\frac{3}{8}$ -in. iron pipe.

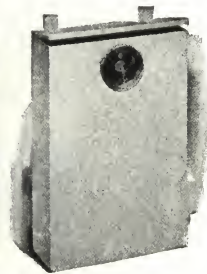
No. M-824 Liquid Soap Tank—Similar to No. C-903, but made of vitreous china with removable cover.



No. C-870



No. C-901



No. C-903

PALMER PRODUCTS, INC.

Manufacturers of Liquid Soap Dispensers

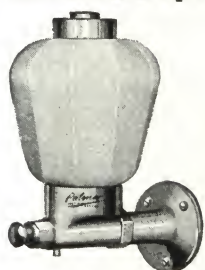
MAIN OFFICES, FACTORY AND LABORATORIES WAUKESHA, WIS.

(Adjacent to Milwaukee)

For our page on Toilet Paper and Paper Towel Fixtures, see Manufacturers' Index

MULTI-SERVICE LIQUID SOAP DISPENSERS

Individual Dispensers



Standard Wall
Bracket

discourage tampering or manipulation. Soap receptacle is locked by special key, and valve parts are not removable except with a tool provided for the purpose.

A Style for Every Requirement—Standard wall brackets, extra long wall brackets, forked lavatory brackets to be attached under flange of water faucet, lavatory bracket to be attached in opening of lavatory, concealed screw style for high grade installations, etc.

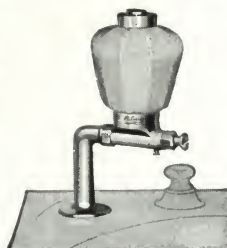
Write for full descriptive literature.

Replaceable Bowl Feature—This exclusively Palmer patented feature makes Palmer equipment preferable. Bowls, when attached to brackets, are as permanently in place as though cemented into the bracket; but in case glass becomes

broken, it is an easy matter to remove remaining parts from the bracket and install a new glass bowl, obtainable from the factory without the necessity of removing bracket from the wall or sending broken parts to the factory for repair.

Foolproof—Dispensers are as nearly 100% foolproof as it is possible to make them, substantially built, and designed to

discourage tampering or manipulation. Soap receptacle is locked by special key, and valve parts are not removable except with a tool provided for the purpose.



Lavatory Bracket



Opal
Glass
Tank

Pipe may be concealed in wall

MULTI-SERVICE LIQUID SOAP TANK SYSTEMS

System for Serving Any Number of Washbasins

Provide a sanitary, dependable, and economical soap service, supplying a fresh, uncontaminated supply of pure liquid soap to each individual user, and serving any number of washbasins from one centrally located container.

Piping may be concealed in walls, while building is under construction; and in such cases galvanized pipe of $\frac{3}{8}$ -in. iron pipe size should be provided, with a nipple extending out of the wall at each washbasin, placed so as to be half-way between the center and left-hand faucet of the basin; and a further nipple extending out of the wall at the point where the tank is to be attached—usually about 36 in. above the soap valve but, in any case, placed so as to allow for the height of the tank and approximately 18 in. above that for convenient filling. Nickelplated brass $\frac{3}{8}$ -in. pipe should be used for exposed installations, and such equipment may be permanently attached without defacing walls or plumbing fixtures.

Palmer Liquid Soap Valves—Recognized as dependable and have become standard equipment with many nationally known critical buyers, after extensive tests conducted in their own engineering departments. The valves are made up in brass, nickelplated or chromium plated, as desired. They are entirely foolproof, with no gaskets or packing to replace. Exclusive design and knife-edge shutoff assure positive closing, and valve is guaranteed not to leak nor clog.



Liquid Soap Valve

broken, it is an easy matter to remove remaining parts from the bracket and install a new glass bowl, obtainable from the factory without the necessity of removing bracket from the wall or sending broken parts to the factory for repair.

To lock globe, lift this spring. To replace broken globe press spring back. Screw out metal part. If locking of globe is not desired leave spring as is.

Valve removable for cleaning or replacement.

Gaskets automatically seated by spring.

Gasket spring sealed in. Requires no attention.

Replaceable Bowl

when old valves are worn out, without removing dispenser or bracket from wall, or sending equipment to the factory.

Spring Seated Gasket—Takes the place of ordinary packing material around the plunger rod of the dispenser valve, and the exclusively Palmer design of this spring-seated feature indefinitely guards against leakage at this point; and eliminates the necessity of repacking, unavoidable at intervals in competitive equipment.

Note: We make portable equipment for surgical and other hospital use. Also powder soap dispensers.

MULTI-SERVICE LIQUID SOAP TANK SYSTEMS

Palmer Liquid Soap Tanks—Available in heavy rust-resisting terne plate, in two sizes and equipped with lifetime gauge. The No. 1 metal tank has a capacity of 3 gal.; the No. 2 metal tank, holds 1 gal.

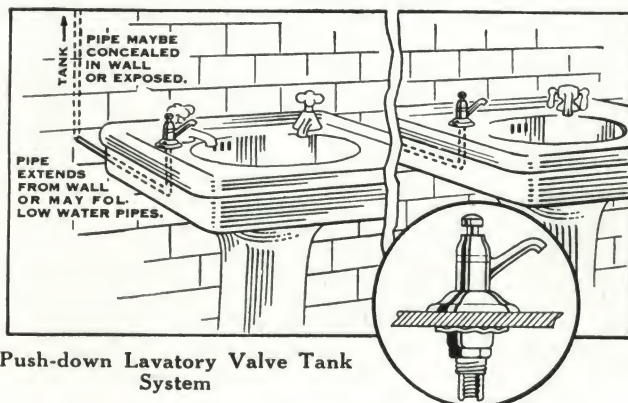
The No. 3 tank is an ornamental white opalescent glass tank with highly nickelplated or chromium brass fittings (illustrated to the right), and also equipped with lifetime gauge. Capacity, $1\frac{1}{2}$ gal.



Metal Tank

Push-down Lavatory Valve Systems

With valves installed in special opening in lavatory, or in left-hand faucet opening where single combination hot and cold water faucets are used. Piping may follow water pipes, or extend out of wall, or installation may be made with exposed nickelplated brass pipe. Ideal for pedestal lavatories placed away from wall. Uses same tanks as system described above; and same valve unit incorporated in individual dispensers described at upper left—the unit which may be replaced without removing entire attachment.



Push-down Lavatory Valve Tank System

Note: Special valve equipment for shower baths.

THE PROCTER & GAMBLE CO.

Ivory Soap Dispensers CINCINNATI, OHIO

Ivory Soap Dispensers

For public washroom installation only.

The Ivory Soap Dispenser is designed to meet the most exacting requirements of public washroom installations in hotels, office buildings, industrial plants, hospitals, clubs and restaurants. (It is *not* sold for use in residences.)

Construction

All metal parts made of a special aluminum alloy. Original luster easily retained by an occasional rubbing with a dry cloth. Virtually airtight and moistureproof.

Design

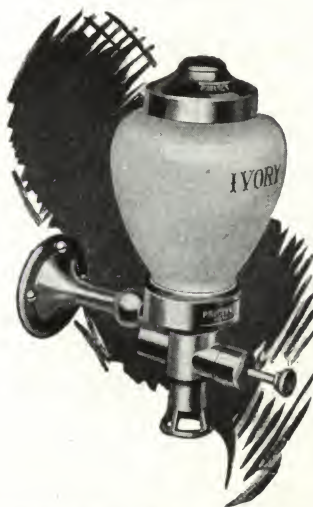
Graceful proportions. (Dimensions indicated on sketch below.) Permanent beauty—will not rust, tarnish or corrode. Shapely bowl of heavy glass holds the flaked soap.

Operation

Dispenser self-contained. Occupies minimum space. Foolproof. Wet hands do not come in contact with discharge orifice, and hence it cannot become clogged. Always delivers.

Installation

Can be fastened to either vertical or horizontal surfaces in a few minutes. Gooseneck bracket supplied at no extra cost for installation



Ivory Soap Dispenser, Standard Wall Type

on lavatory. See line drawing for methods of installation.

Economy

Careful tests have shown that use of the Ivory Dispenser assures a reduction of one-third to one-half in soap costs. A single push of the plunger delivers enough flaked Ivory for a generous lather. Dispenser is leakproof—no soap is wasted.

Soap

Ivory Soap in uniformly fine, free flowing flakes is provided for dispenser. Comes in pound boxes with handy metal spout for easy filling of dispenser. Ivory's 99 44/100% purity and its rich lathering and free-rinsing qualities are universally known and appreciated.

Refilling

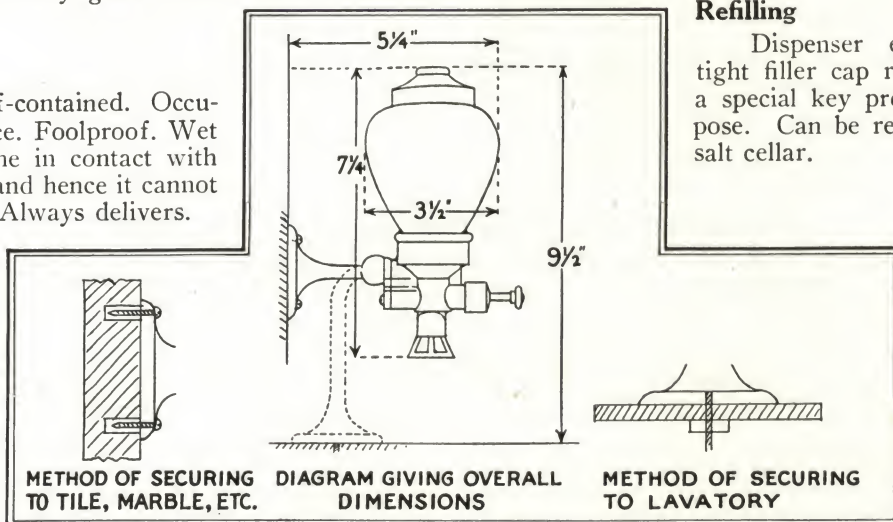
Dispenser equipped with airtight filler cap removable only with a special key provided for the purpose. Can be refilled as easily as a salt cellar.

Prices

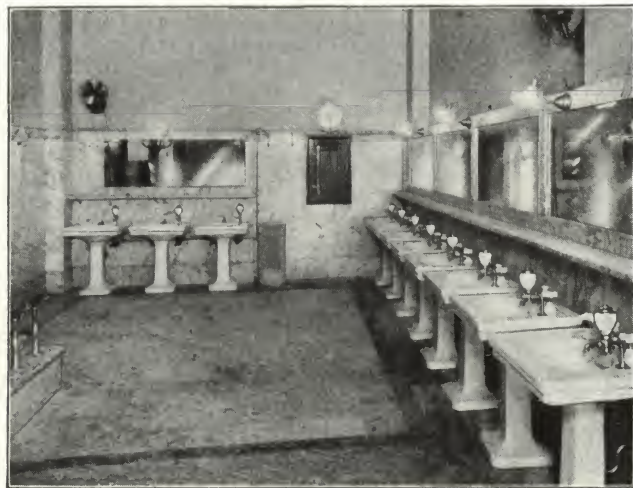
Special contract prices for large installations mailed upon request.

Patented

Dispenser can be purchased only from PROCTER & GAMBLE.



Wall Installation, Riggs National Bank, Washington, D. C.



Installation on Lavatories, Sinton Hotel, Cincinnati, Ohio

WEST DISINFECTING COMPANY

Manufacturers of Liquid Soap Dispensing Systems

16 Barn Street, LONG ISLAND CITY, N. Y.

ALBANY, N. Y.
ATLANTA, GA.
BALTIMORE, MD.
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.
CALGARY, ALTA.
CHICAGO, ILL.

CINCINNATI, OHIO
CLEVELAND, OHIO
COLUMBUS, OHIO
DALLAS, TEX.
DENVER, COLO.
DETROIT, MICH.
INDIANAPOLIS, IND.
KANSAS CITY, MO.

TORONTO, ONT.

BRANCHES AND OFFICES

LOS ANGELES, CALIF.
LOUISVILLE, KY.
MILWAUKEE, WIS.
MONTREAL, QUE.
NEWARK, N. J.
NEW HAVEN, CONN.
NEW ORLEANS, LA.
NEW YORK, N. Y.

OMAHA, NEB.
PHILADELPHIA, PA.
PITTSBURGH, PA.
PORTLAND, ORE.
PROVIDENCE, R. I.
RICHMOND, VA.
ROCHESTER, N. Y.
ST. JOHN, N. B.

ST. LOUIS, MO.
ST. PAUL, MINN.
SALT LAKE CITY, UTAH
SAN FRANCISCO, CALIF.
SEATTLE, WASH.
SPRINGFIELD, MASS.
SYRACUSE, N. Y.
TOLEDO, OHIO

VANCOUVER, B. C.
WASHINGTON, D. C.
WINNIPEG, MAN.

FACTORIES: LONG ISLAND CITY, N. Y. and MONTREAL, QUE.

Products

SOAPARATUS LIQUID SOAP DISPENSING SYSTEMS.

Scope of West Service

WEST DISINFECTING COMPANY is an organization with a national reputation for the quality of its products, which are disinfectants, chemicals, liquid soap and liquid soap dispensing equipment.

This concern has a large, advantageously located plant, with facilities for quantity production, and scattered throughout the country in the larger cities are service organizations equipped to co-operate with clients to their complete satisfaction.

The experience of this company in installing soap dispensing systems in buildings of every type offers architects, builders and owners a service that will prove of exceptional value. Advice can be given on problems that might prove troublesome, and complete data on problems similar to your own is at your disposal for new construction or for installation in buildings already erected and occupied.

In addition to a proper layout, proper apparatus and proper soap, there is still a very important element that architects and owners should consider—that of future service.

WEST DISINFECTING COMPANY is firmly established with a line of products having a strong national demand, and showing a yearly increase of business that augurs well for the future.

Soaparatus Tanks

The Soaparatus Tanks are made of vitreous china, vitreous enamel on welded sheet iron or white enamel on rustproof sheet metal. They are designed to cover as little wall space as is commensurate with good proportion and pleasing appearance.

The vitreous china soap tank is considered superior to the others, because its appearance conforms perfectly with washroom fixtures, and it is more readily kept clean.

They are made in five sizes: 1, 2, 3, 5 and 10 gallon. The dimensions are shown below.

If it is desired, the entire system, including nickel-plated piping, unions, shut-offs and all parts, can be made at our factory to be shipped complete and assembled for exposed installation.



West Soaparatus Liquid Soap Dispensing System
Installed in a Theater

TANKS

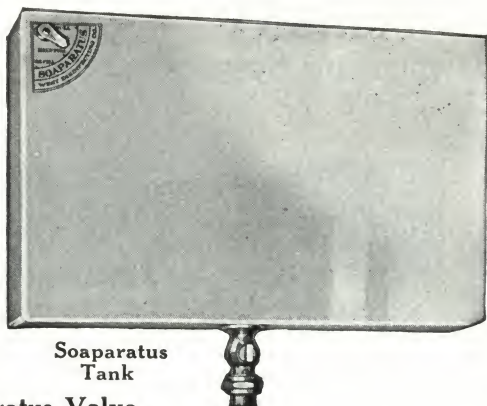
No.	Fluid content, gal.	Height, in.	Width, in.	Depth, in.
Vitreous China Soaparatus Tanks				
1	1	8½	10	4¾
2	1¾	9½	12¾	4½
3	2½	9¾	15¾	4½
5	3¾	12¾	16½	5½
Monel Metal Tanks				
2	2	12	13	3½
3	3	12	15	3½
5	5	15	16	5½
Metal Tin Tanks				
1	1	8½	9½	3¾
2	1¾	9¾	12	3¾
3	2½	10½	15	3¾
5	4¼	12	15¾	5¼
10	10	18	22	6



Hotel Installation



School Installation

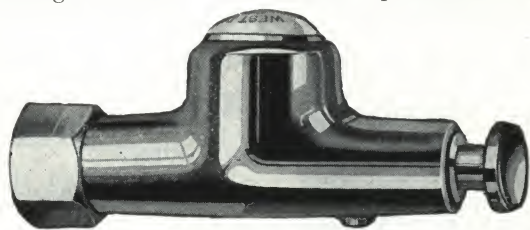


Soaparatus
Tank

Soaparatus Valve

Designed primarily with one end in view—mechanical efficiency. It was then refined to harmonize in appearance with the finest plumbing fixtures.

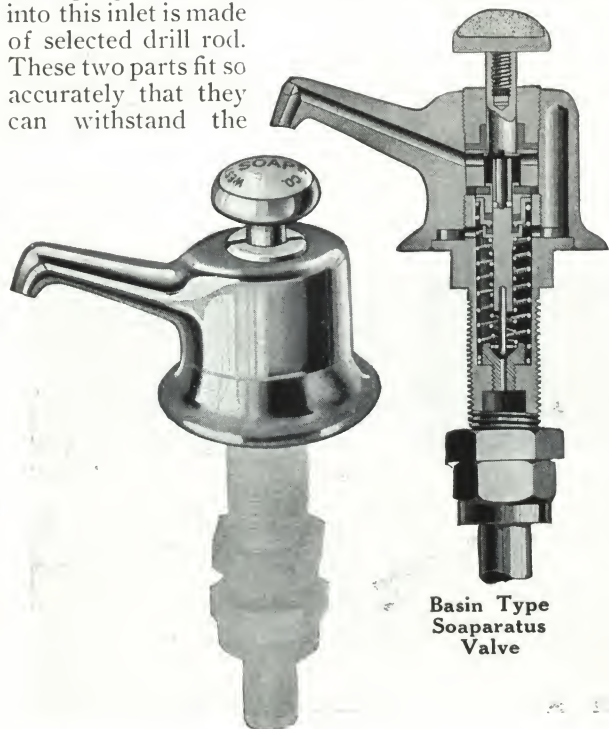
The patented air chamber, within the dome on the upper side of the valve, contains just enough air over the soap to start a gravity discharge of the soap in the dome when the plunger is pushed. A slight push of the plunger shuts off the supply from the main reservoir by closing the inlet. A continued push emits a dis-



Soaparatus Valve

charge of soap from the dome. This flows gently into the hand without splashing or squirting and without suds. The amount of soap released is the pre-determined amount proper for a satisfactory hand wash, and is released by one push of the plunger.

Another feature of the Soaparatus Valve is the plunger rod and inlet. This inlet is made of tool steel gauged within .00025 in. The plunger which fits into this inlet is made of selected drill rod. These two parts fit so accurately that they can withstand the



Basin Type
Soaparatus
Valve

pressure of more than 150 lb. without causing the valve to leak. This careful gauging is carried through on every part of the valve so that the assembled product is as nearly mechanically perfect as possible.

The Soaparatus Valve has been adapted also to a basin fixture. Many architects are making provision for a liquid soap valve on, or through, the wash basin. This Soaparatus basin fixture is a simple adaptation of the standard valve to meet this condition.

The Soaparatus Valves are finished in nickel or chromium to conform with the other fixtures.

Soap

Liquid soap is being piped through buildings because, by this method, an uninterrupted supply of soap is assured; because liquid soap is more conveniently used than cake soap; because it is more sanitary; and last, but important, it is more economical.

WEST DISINFECTING COMPANY was a pioneer in the liquid soap industry, and has maintained its leading position because it manufactures only pure cocoanut oil liquid soaps of a standard high quality. To assure proper lathering and soothing qualities, it is necessary that the soap should be treated and retreated, aged and tested before it is allowed to leave the factory.

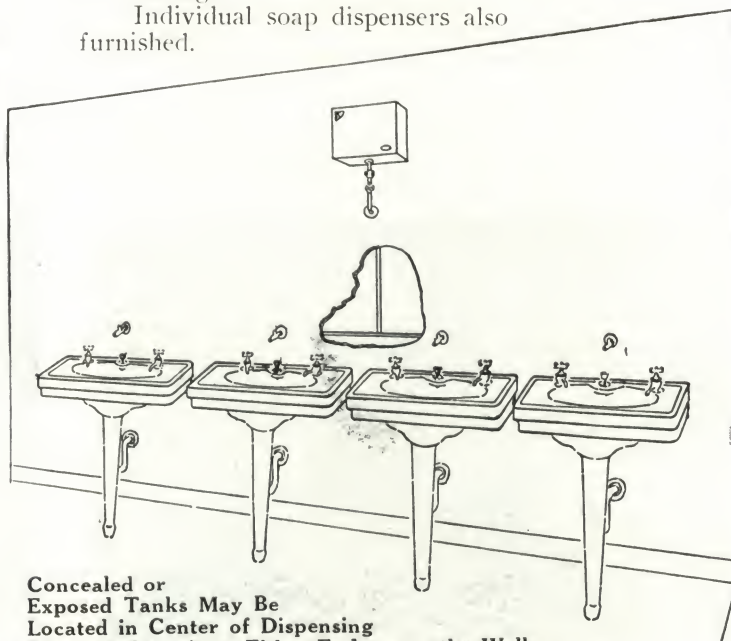
Installation

The Soaparatus system, due to its flexibility, is admirably adapted to varying conditions of installation. One tank may be used to supply any number of valves, and extensions may be made as required, provided they are at a level at least a foot lower than the location of the supply tank in order to provide proper gravity flow. When installed in connection with new construction, where provision has been made in the plans or where existing conditions will permit, the piping from the tank to taps may be concealed, creating an exceptionally neat appearance. In cases where it is impossible to conceal the piping a thoroughly attractive installation is provided by the use of nickelplated piping throughout.

Engineering Service

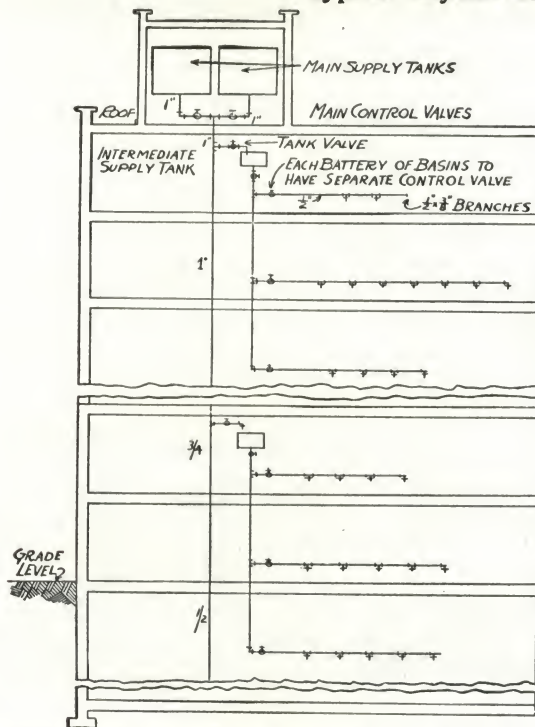
We maintain an Engineering Department Service—consultation with architects and engineers or owners of buildings.

Individual soap dispensers also furnished.

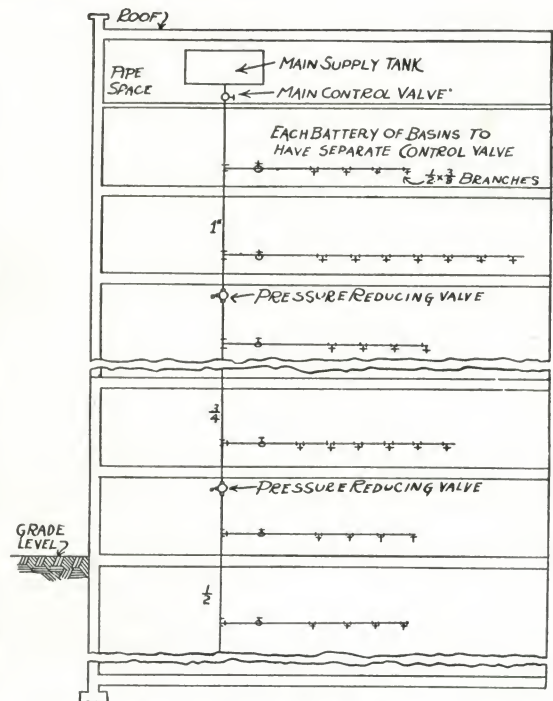


Concealed or
Exposed Tanks May Be
Located in Center of Dispensing
Line (as shown), at Either End, or on the Walls
that Face the Right or Left End of Lavatory Line

Typical Layouts for Soaparatus Systems



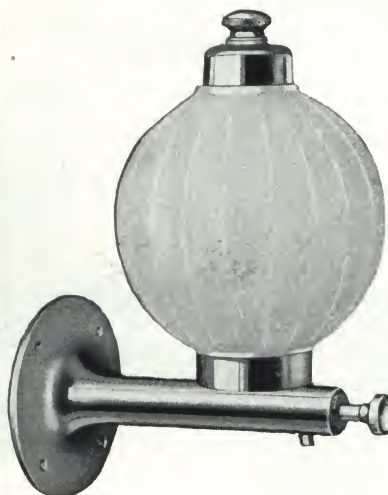
Preferred Layout, Using Double Supply Tank and Relay Tanks to Reduce Pressure



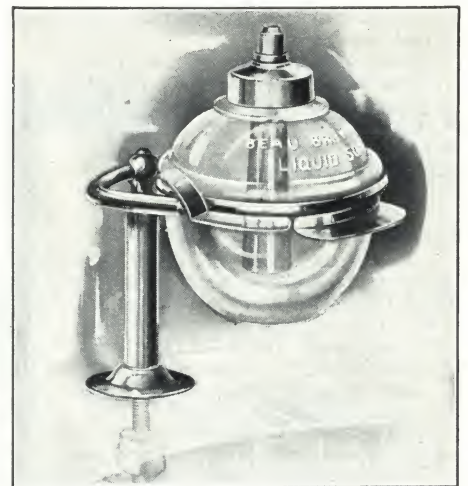
Alternate Layout, Using Single Supply Tank, and Pressure Reducing Valves, Instead of Relay Tanks



Model No. 1 Dispenser



Model No. 51 Dispenser



Model No. 4 Dispenser



Individual Pump Valve



Shower Bath Dispenser



Treadle Dispenser

U. S. SANITARY SPECIALTIES CORPORATION

Originators "Soaperior" Liquid Soap Systems

435 South Western Avenue, CHICAGO, ILL.

BRANCH OFFICES

NEW YORK, N. Y., 59-63 East 12th Street

BIRMINGHAM, ALA., 3 South 20th Street

Products

"SOAPERIOR" GRAVITY LIQUID SOAP DISPENSING SYSTEMS and INDIVIDUAL DISPENSERS for hotels, theaters, clubs, banks, schools, hospitals, institutions, public buildings, factories, etc.

Also Paper Towel and Toilet Paper Fixtures and other Sanitary Requisites.



The Company

For more than a dozen years, the U. S. SANITARY SPECIALTIES CORPORATION has blazed the trail in developing new methods and appliances in the field of sanitation. Scientific control of production is guided by a busy laboratory and research department. Three plants, Chicago, New York, and Birmingham, make for prompt service.

"SOAPERIOR" GRAVITY LIQUID SOAP DISPENSING SYSTEMS

Description

A small investment and practically no maintenance cost provides sanitary hand-washing facilities in the lavatory. Perfect hygiene and efficient soap supply service are insured. A measured quantity of clean liquid soap is delivered to each user.

"Soaperior" Soap System consists of an elevated, adequately sized soap tank installed above the horizontal soap line. From this, liquid soap is piped to especially designed hexagon, foolproof valves located over each basin—batteries or single lavatories.

Where practical, a single large soap tank (35, 65 or 110 gal.) may be installed on top floor of pent house, the soap piped to each washroom.

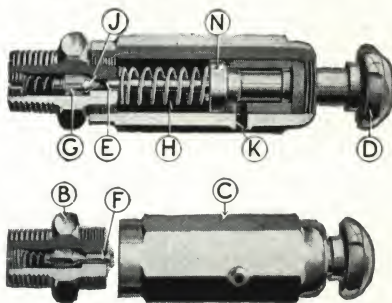
Installation of all-metal gravity soap systems insures permanency, obviates breakage, eliminates frequent fillings of dispensers, etc. Pipe is concealed in wall or exposed if desired. Over factory wash troughs, exposed pipe is clamped to water line.

Exclusive Patented Valve

The "Soaperior" Hexagon Soap Valve is the heart of the gravity system. (Cutaway view at top of page shows the reasons for dependability, leakproof and foolproof features.) Discharges only a measured quantity of soap—14 to 16 drops. Soap cannot flow in a continuous stream.

"Soaperior" Valve incorporates an exclusive patented feature. The rear union (B) holds unusual pressure and acts as an individual shutoff cock, permitting removal of the body of valve for cleaning, and allowing other valves on the line to remain in use.

Soaperior



Construction

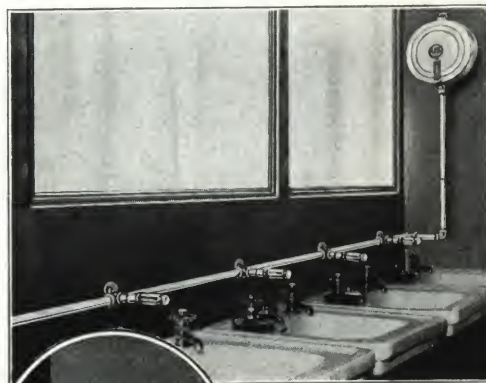
Because it stands up under heavy duty requirements and does not corrode or form verdigris, white metal was selected for the "Soaperior" Hexagon Soap Valve. Chromium plating insures lasting finish. Push button comfortably fits the hand. Piping may be chromium or nickel plated brass for installations where piping is exposed—galvanized or black iron where concealed.

Guarantee

Every "Soaperior" Soap Valve and Individual Dispenser carries a year's guarantee against mechanical defect.

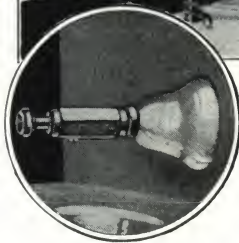
Specifications

Furnish and install a Liquid Soap Supply consisting of an elevated soap tank located adjacent to each battery of basins, from which soap lines (concealed or exposed) shall run to liquid soap valves located over each wash basin. Valves shall include cone shut-offs and check in rear union (catalogue No. 103 U. S. SANITARY SPECIALTIES CORPORATION of Chicago). Tanks figures No. 100, 101 and 102 (see next page) catalogue U. S. SANITARY SPECIALTIES CORPORATION of Chicago shall be equipped with glass gauge protected by three steel bars. Tank figure No. 203 shall be equipped with float gauge and vertical indicator. Tank Fig. 200 (see next page) shall be equipped with float gauge and strainer. Tanks shall be located so that top when installed is not less than 18 in. below finished ceiling. Pipe and fittings standard $\frac{3}{8}$ in. I. P. S.



Installation

Tank may be exposed in washroom (above) or concealed in accessible space or closet (left)



"SOAPERIOR" PENTHOUSE TYPE INSTALLATIONS

Description

This system provides for central source of soap supply stored in special tanks in the upper part of a large building.

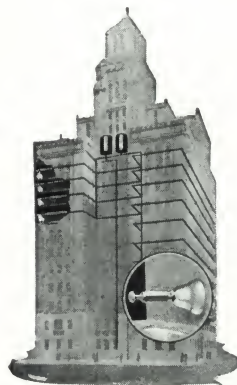
The "Soaperior" hexagon valve is well adapted to use with this system due to the check seat in its rear union which absorbs pressure.

Pressure regulators may be used, however, every three or four floors and will be furnished on specification.

Piping is concealed back of the walls and equipped at various points with shut-off valves.

Tank Specifications

Cone bottom, float gauge with indicator. Necessary faucet opening. Heavy iron stand. Necessary fill opening. Constructed of heavy steel. Tank finished in green enamel, stand in black japan. Equipped with funnel top under opening with long tube extending to tank bottom to prevent foaming of soap, also screen to prevent introduction of foreign substances. Guaranteed leakproof. Capacities: 35, 65 and 110 gal. Dimensions and weights: 35 gal., $23\frac{1}{2}$ x24x36 in. over all; 12-in. stand; weight, 32 lb. 65 gal., $23\frac{1}{2}$ x36x48 in. over all; 12-in. stand; weight, 64 lbs. 110 gal., 30x36x48 in. over all; 12-in. stand; weight, 78 lb.



Mayo Clinic Building,
Penthouse Installation—250 Valves

Tanks for "Soaperior" System

Fig. 203—A handsome hexagonal tank of porcelainized enamel; gauge shows soap level. Capacities 1, 2½ and 5 gal.

Fig. 100—Round spun tank, white or gray baked-on enamel.

Fig. 101—Round spun monel metal (not shown, shaped like Fig. 100) complete with glass fluid gauge; capacities 1, 2, 3 and 5 gal.

Fig. 102—Circular vitreous china, with glass fluid gauge; capacity 1 and 2 gal.

Fig. 200—Tank heavy metal gray enameled, equipped with float gauge. Capacities 1, 2, 3, 5 and 10 gal.

Fig. 201—Monel metal, same specifications as Fig. 200. For penthouse installations.

Fig. 300—(See illustration opposite page.) Tank of heavy steel, finished in green enamel; sizes 35, 65 and 110 gal.



Fig. 200



Fig. 100

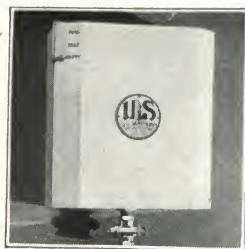


Fig. 203

"Soaperior" Model 124 Dispenser (Pullman Type)

Where desirable to locate valves on basins instead of walls, specify Model 124. Made of white metal, chromium plated. All the features of "Soaperior" Hexagon Valve. Can be adjusted for high pressure installations. Lavatories should be furnished with opening drilled 1 in. square in top as directed.

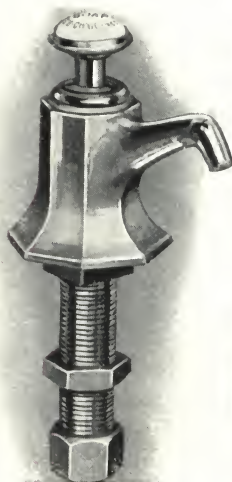


Fig. 124

"Soaperior" 123 Dispenser

Made of brass or white metal, nickel plated. Container is concealed beneath wash basin. Only the top of pump is exposed. Filled through top by removing button cap.



Fig. 123

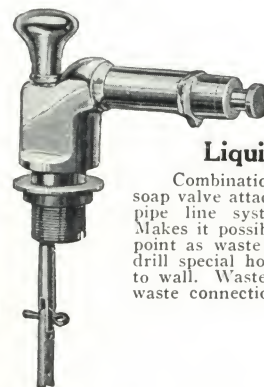


Fig. 126

"Soaperior" Portable Hospital Dispenser Model 104

Heavy rugged metal body makes dispenser impervious to wear. Pedestal, hexagon shape, finished white porcelain enamel. All exposed metal parts chromium plated. Double foot pedal and swivel arm serves two basins. Globe corrugated, made of heavy white opalescent glass.

Mechanism precision tooled—plunger made entirely of metal. Valve designed so that release of pressure on pedal draws back soap through suction. Exclusive continuous flow feature. Positive shutoff.

Dimensions: height, 50 in.; diameter of base, 14 in.; clearance of spout, 39½ in.; arm reach, 12½ in. Globe capacity ½ gal.



Fig. 104

"Soaperior" Hospital Dispenser Model 104B with Treadle Attachment

Consists of a soap tank (Figs. 100, 102 or 203), connecting pipe, "Soaperior" Hexagon Valve (Fig. 103) and foot pedal attachment, which may be installed from either right or left side of basin.

Hands do not touch the device. Continuous flow of soap while foot remains on pedal. Positive shutoff when pressure is released. When not in use, foot pedal attachment may be raised to upright position.



Fig. 104B

"Soaperior" 121 Dispenser

"Soaperior" Hexagon Valve foolproof mechanism. One-piece bracket of non-corrosive white metal, heavily nicked or chromium plated; 18-oz. corrugated opalescent, clear crystal globe. Also furnished equipped with all-metal globe, nickel or chromium plated. Filled through opening at top.

Dimensions: projection over all, 6½ in.; height, 7¼ in. Weight, 1.6 lb.

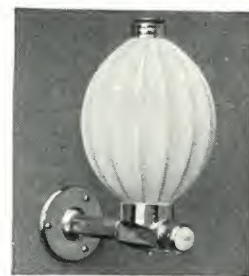


Fig. 121

"Soaperior" 122 Dispenser

"Soaperior" Model 122 is identical with Model 121, except that it is equipped with right angle bracket (made in one piece) to permit attaching to top of washstand through cock-hole.

Dimensions: height, 10¾ in. above bowl, 4 in. below; projection, 6¾ in. Weight, 2.3 lb. Capacity, 18 oz.

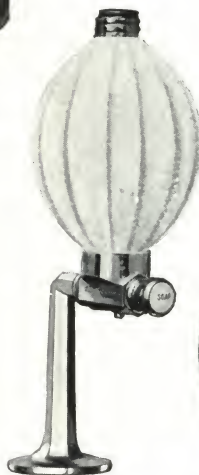


Fig. 122

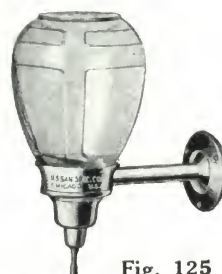


Fig. 125

Perfection 125 Dispenser

Leakproof push-up type dispenser made of white metal heavily nickel plated. Clear crystal machined glass globe. Cone type shutoff keeps the channel free from hardened soap.

Dimensions: height, 6½ in.; projection, 5½ in. Capacity of globe, 14 oz. Weight, 1 lb.

Combination Pop-up Waste Plug and Liquid Soap Valve, Fig. 126

Combination pop-up waste plug and liquid soap valve attachment connected to gravity tank pipe line system. All piping is concealed. Makes it possible to install soap valve at same point as waste plug, making it unnecessary to drill special holes in basin or attach dispenser to wall. Waste operating rod fits all standard waste connections.

"Soaperior" Shampoo Distributor

For beauty parlors and barber shops. Made entirely of metal and incorporating foolproof "Soaperior" Valve mechanism. Consists of Fig. 100 or 203 tank (above) installed at elevation (either over battery of basins with metal pipe exposed or with rubber hose connected from tank to soap valve). Nickel plated valve at slight pressure on handle discharges shampoo in a continuous flow.



Fig. 402



HEAT GENERATION

American Chimney Corp.....	D5141	Kellogg, M. W., Co.....	D5146-5147
Anthony Company	D5224	Kewanee Boiler Corp.....	D5160-5169
Auburn Stoker Corp.....	D5217	King Burner Co., Inc.....	D5257
Automatic Burner Corp.....	D5225	Maurer, Henry, & Son.....	D5149
Bailey Meter Co.....	D5265	May Oil Burner Corp.....	D5245-5256
Bass Foundry & Machine Co.....	D5150	McDonnell & Miller.....	D5274
Bristol Co.	D5266-5267	Mineral Felt Insulating Co.....	D5275
Brownell Co.	D5151	Molby Boiler Co.....	D5178
Bryant Heater & Mfg. Co.—		Mueller, L. J., Furnace Co.—	
Gas Fired Boilers.....	D5199-5212	Gas Fired Boilers.....	D5214
Gas Fired Furnaces.....	D5121-5132	Gas Fired Furnaces.....	D5140
Burnham Boiler Corp.....	D5152-5153	National Warm Air Heating Assn.....	D5120
Campbell Heating Co.....	D5134-5135	Nu-Way Corp.	D5258
Carey, Philip, Co.....	D5276-5277	Oil City Boiler Works.....	D5170-5171
Central Radiator Co.....	D5156	Peerless Heater Co.....	D5215
Combination Boiler Co.....	D5154-5155	Philfuels Co.	D5116-5117
Combustioneer, Inc.	D5218-5219	Pyrofax Div., Carbide and Carbon Chemicals	
Continental Chimney Co., Inc.....	D5142	Corp.	D5118-5119
Crane Co.	D5213	Ray Burner Co.....	D5259
Crystal Oil Burner Corp.....	D5226	Richardson & Boynton Co.....	D5172-5177
Custodis, Alphons, Chimney Construction Co....	D5143	Ric-wiL Co.	D5285
Detroit Stoker Co.....	D5220	Rust Engineering Co.....	D5145
Electrol Inc.	D5228-5239	Silent Automatic Corp.....	D5260-5263
Enterprise Oil Burner Co.....	D5227	Smith, H. B., Co.....	D5179-5190
Follansbee Brothers Co.....	D5136-5139	Spencer Heater Co., Div. of Lycoming Mfg.	
Freeport Gas Machine Co., Inc.....	D5114	Co.	D5194-5195
Grinnell Co., Inc.....	D5268-5273	Summerhays, Wm., Sons Corp.....	D5148
Hardinge Brothers, Inc.....	D5240-5241	Thatcher Co.	D5191-5193
Heinicke, H. R., Inc.....	D5144	Titusville Iron Works Co.....	D5196-5197
Holland Furnace Co.....	D5133	Whiting Corp.	D5221
Iron Fireman Mfg. Co.....	D5222-5223	Wickes Boiler Co.....	D5198
Johns-Manville	D5278-5283	Williams Oil-O-Matic Heating Corp.....	D5264
Johnson, S. T., Co.....	D5242-5244	Wilson Sanitation Inc.....	D5115
Keasbey & Mattison Co.....	D5284	Wood, Gar, Engineering Co.....	D5216
Keeler, E., Co.....	D5157-5159		